Maxxam
A Bureau Veritas Group Company

Your Project #: BFTA
Your C.O.C. #: 623638-04-01

Attention: Tom Cambareri

Cape Cod Comission
Cape Cod Commission
3225 Main Street
Barnstable, MA
USA 02630

Report Date: 2018/01/05
Report #: R4929406
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7R8638
Received: 2017/12/08, 14:48

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water by SPE/LCMS (1)	3	2017/12/20	2018/01/03	CAM SOP-00894	EPA 537 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Per- and polyfluoroalkyl substances (PFAS) identified as surrogates on the certificate of analysis represent the extracted internal standard.

Encryption Key

Khalida Aram

Khalida Aram
Project Manager
05 Jan 2018 15:07:26

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Stephanie Pollen, Project Manager
Email: SPollen@maxxam.ca
Phone# (905) 817-5700

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B7R8638
Report Date: 2018/01/05

Cape Cod Comission
Client Project #: BFTA
Sampler Initials: SM

RESULTS OF ANALYSES OF WATER

Maxxam ID		FSL827			FSL828			
Sampling Date		2017/12/07 13:40			2017/12/07 13:40			
COC Number		623638-04-01			623638-04-01			
	UNITS	INFLUENT PRW-4	RDL	MDL	MID POINT	RDL	MDL	QC Batch
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	0.14	0.023	0.0076	0.085	0.023	0.0076	5324451
8:2 Fluorotelomer sulfonate	ug/L	0.083	0.023	0.0076	0.030	0.023	0.0076	5324451
N-ethylperfluorooctane sulfonamide	ug/L	<0.012	0.023	0.012	<0.012	0.023	0.012	5324451
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0091	0.023	0.0091	<0.0091	0.023	0.0091	5324451
N-methylperfluorooctane sulfonamide	ug/L	<0.015	0.023	0.015	<0.015	0.023	0.015	5324451
N-methylperfluorooctanesulfonamidol	ug/L	<0.014	0.023	0.014	<0.014	0.023	0.014	5324451
Perfluorobutanoic acid	ug/L	0.039	0.023	0.0063	0.028	0.023	0.0063	5324451
Perfluorobutane Sulfonate (PFBS)	ug/L	0.036	0.023	0.0062	0.017	0.023	0.0062	5324451
Perfluorodecane Sulfonate	ug/L	<0.0069	0.023	0.0069	<0.0069	0.023	0.0069	5324451
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.074	0.023	0.0085	0.046	0.023	0.0085	5324451
Perfluoroheptane sulfonate	ug/L	0.041	0.023	0.0092	0.022	0.023	0.0092	5324451
Perfluorohexanoic Acid (PFHxA)	ug/L	0.18	0.023	0.0040	0.098	0.023	0.0040	5324451
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.37	0.023	0.0064	0.17	0.023	0.0064	5324451
Perfluorononanoic Acid (PFNA)	ug/L	0.050	0.023	0.010	0.022	0.023	0.010	5324451
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.012	0.023	0.0039	<0.0039	0.023	0.0039	5324451
Perfluoropentanoic Acid (PFPeA)	ug/L	0.13	0.023	0.0086	0.079	0.023	0.0086	5324451
Perfluorotetradecanoic Acid	ug/L	<0.0031	0.023	0.0031	<0.0031	0.023	0.0031	5324451
Perfluorotridecanoic Acid	ug/L	<0.0044	0.023	0.0044	<0.0044	0.023	0.0044	5324451
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.048	0.023	0.0029	0.025	0.023	0.0029	5324451
Perfluorodecanoic Acid (PFDA)	ug/L	0.0092	0.023	0.0070	<0.0070	0.023	0.0070	5324451
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0058	0.023	0.0058	<0.0058	0.023	0.0058	5324451
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.064	0.023	0.0038	0.034	0.023	0.0038	5324451
Perfluorooctane Sulfonate (PFOS)	ug/L	1.6 (1)	0.20	0.060	0.78	0.023	0.0069	5324451
Surrogate Recovery (%)								
13C2-6:2 Fluorotelomer sulfonate	%	82	N/A	N/A	87	N/A	N/A	5324451
13C2-8:2 Fluorotelomer sulfonate	%	75	N/A	N/A	76	N/A	N/A	5324451
13C2-Perfluorodecanoic acid	%	71	N/A	N/A	87	N/A	N/A	5324451
13C2-Perfluorododecanoic acid	%	65	N/A	N/A	71	N/A	N/A	5324451
13C2-Perfluorohexanoic acid	%	75	N/A	N/A	82	N/A	N/A	5324451
13C2-perfluorotetradecanoic acid	%	62	N/A	N/A	67	N/A	N/A	5324451
13C2-Perfluoroundecanoic acid	%	70	N/A	N/A	74	N/A	N/A	5324451
13C4-Perfluorobutanoic acid	%	76	N/A	N/A	82	N/A	N/A	5324451

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x).

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Maxxam Job #: B7R8638
Report Date: 2018/01/05

Cape Cod Comission
Client Project #: BFTA
Sampler Initials: SM

RESULTS OF ANALYSES OF WATER

Maxxam ID		FSL827			FSL828			
Sampling Date		2017/12/07 13:40			2017/12/07 13:40			
COC Number		623638-04-01			623638-04-01			
	UNITS	**INFLUENT PRW-4**	**RDL**	**MDL**	**MID POINT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluoroheptanoic acid	%	79	N/A	N/A	81	N/A	N/A	5324451
13C4-Perfluorooctanesulfonate	%	94	N/A	N/A	83	N/A	N/A	5324451
13C4-Perfluorooctanoic acid	%	87	N/A	N/A	84	N/A	N/A	5324451
13C5-Perfluorononanoic acid	%	82	N/A	N/A	84	N/A	N/A	5324451
13C5-Perfluoropentanoic acid	%	76	N/A	N/A	82	N/A	N/A	5324451
13C8-Perfluorooctane Sulfonamide	%	70	N/A	N/A	74	N/A	N/A	5324451
18O2-Perfluorohexanesulfonate	%	79	N/A	N/A	93	N/A	N/A	5324451
N-ethyl-d5-perfluorooctane sulfonam	%	52	N/A	N/A	71	N/A	N/A	5324451
N-methyl-d3-perfluorooctane sulfona	%	61	N/A	N/A	69	N/A	N/A	5324451

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RESULTS OF ANALYSES OF WATER

Maxxam ID		FSL829			
Sampling Date		2017/12/07 13:40			
COC Number		623638-04-01			
	UNITS	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ug/L	<0.0066	0.020	0.0066	5324451
8:2 Fluorotelomer sulfonate	ug/L	<0.0066	0.020	0.0066	5324451
N-ethylperfluorooctane sulfonamide	ug/L	<0.010	0.020	0.010	5324451
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0079	0.020	0.0079	5324451
N-methylperfluorooctane sulfonamide	ug/L	<0.013	0.020	0.013	5324451
N-methylperfluorooctanesulfonamidol	ug/L	<0.012	0.020	0.012	5324451
Perfluorobutanoic acid	ug/L	<0.0055	0.020	0.0055	5324451
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.0054	0.020	0.0054	5324451
Perfluorodecane Sulfonate	ug/L	<0.0060	0.020	0.0060	5324451
Perfluoroheptanoic Acid (PFHpA)	ug/L	<0.0074	0.020	0.0074	5324451
Perfluoroheptane sulfonate	ug/L	<0.0080	0.020	0.0080	5324451
Perfluorohexanoic Acid (PFHxA)	ug/L	<0.0035	0.020	0.0035	5324451
Perfluorohexane Sulfonate (PFHxS)	ug/L	<0.0056	0.020	0.0056	5324451
Perfluorononanoic Acid (PFNA)	ug/L	<0.0087	0.020	0.0087	5324451
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0034	0.020	0.0034	5324451
Perfluoropentanoic Acid (PFPeA)	ug/L	<0.0075	0.020	0.0075	5324451
Perfluorotetradecanoic Acid	ug/L	<0.0027	0.020	0.0027	5324451
Perfluorotridecanoic Acid	ug/L	<0.0038	0.020	0.0038	5324451
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0025	0.020	0.0025	5324451
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0061	0.020	0.0061	5324451
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0050	0.020	0.0050	5324451
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	<0.0033	0.020	0.0033	5324451
Perfluorooctane Sulfonate (PFOS)	ug/L	0.011	0.020	0.0060	5324451
Surrogate Recovery (%)					
13C2-6:2 Fluorotelomer sulfonate	%	91	N/A	N/A	5324451
13C2-8:2 Fluorotelomer sulfonate	%	81	N/A	N/A	5324451
13C2-Perfluorodecanoic acid	%	85	N/A	N/A	5324451
13C2-Perfluorododecanoic acid	%	72	N/A	N/A	5324451
13C2-Perfluorohexanoic acid	%	79	N/A	N/A	5324451
13C2-perfluorotetradecanoic acid	%	69	N/A	N/A	5324451
13C2-Perfluoroundecanoic acid	%	78	N/A	N/A	5324451
13C4-Perfluorobutanoic acid	%	79	N/A	N/A	5324451
13C4-Perfluoroheptanoic acid	%	76	N/A	N/A	5324451
13C4-Perfluorooctanesulfonate	%	89	N/A	N/A	5324451

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Report Date: 2018/01/05

Cape Cod Comission
Client Project #: BFTA
Sampler Initials: SM

RESULTS OF ANALYSES OF WATER

Maxxam ID		FSL829			
Sampling Date		2017/12/07 13:40			
COC Number		623638-04-01			
	UNITS	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluorooctanoic acid	%	80	N/A	N/A	5324451
13C5-Perfluorononanoic acid	%	81	N/A	N/A	5324451
13C5-Perfluoropentanoic acid	%	83	N/A	N/A	5324451
13C8-Perfluorooctane Sulfonamide	%	72	N/A	N/A	5324451
18O2-Perfluorohexanesulfonate	%	87	N/A	N/A	5324451
N-ethyl-d5-perfluorooctane sulfonam	%	63	N/A	N/A	5324451
N-methyl-d3-perfluorooctane sulfona	%	67	N/A	N/A	5324451

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Maxxam Job #: B7R8638
Report Date: 2018/01/05

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TEST SUMMARY

Maxxam ID: FSL827
Sample ID: INFLUENT PRW-4
Matrix: Water

Collected: 2017/12/07
Shipped:
Received: 2017/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5324451	2017/12/20	2018/01/03	Kenneth Chu

Maxxam ID: FSL828
Sample ID: MID POINT
Matrix: Water

Collected: 2017/12/07
Shipped:
Received: 2017/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5324451	2017/12/20	2018/01/03	Kenneth Chu

Maxxam ID: FSL829
Sample ID: EFFLUENT
Matrix: Water

Collected: 2017/12/07
Shipped:
Received: 2017/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5324451	2017/12/20	2018/01/03	Kenneth Chu

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GENERAL COMMENTS

Cooler custody seal was present and intact.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
5324451	KC1	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2018/01/03		86	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2018/01/03		87	%	50 - 150
			13C2-Perfluorodecanoic acid	2018/01/03		80	%	50 - 150
			13C2-Perfluorododecanoic acid	2018/01/03		72	%	50 - 150
			13C2-Perfluorohexanoic acid	2018/01/03		88	%	50 - 150
			13C2-perfluorotetradecanoic acid	2018/01/03		68	%	50 - 150
			13C2-Perfluoroundecanoic acid	2018/01/03		78	%	50 - 150
			13C4-Perfluorobutanoic acid	2018/01/03		84	%	50 - 150
			13C4-Perfluoroheptanoic acid	2018/01/03		82	%	50 - 150
			13C4-Perfluorooctanesulfonate	2018/01/03		88	%	50 - 150
			13C4-Perfluorooctanoic acid	2018/01/03		83	%	50 - 150
			13C5-Perfluorononanoic acid	2018/01/03		83	%	50 - 150
			13C5-Perfluoropentanoic acid	2018/01/03		89	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2018/01/03		71	%	50 - 150
			18O2-Perfluorohexanesulfonate	2018/01/03		87	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2018/01/03		69	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2018/01/03		67	%	50 - 150
			6:2 Fluorotelomer sulfonate	2018/01/03		92	%	70 - 130
			8:2 Fluorotelomer sulfonate	2018/01/03		93	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2018/01/03		105	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2018/01/03		88	%	70 - 130
			N-methylperfluorooctane sulfonamide	2018/01/03		93	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2018/01/03		99	%	70 - 130
			Perfluorobutanoic acid	2018/01/03		93	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2018/01/03		90	%	70 - 130
			Perfluorodecane Sulfonate	2018/01/03		84	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2018/01/03		92	%	70 - 130
			Perfluoroheptane sulfonate	2018/01/03		93	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2018/01/03		88	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2018/01/03		91	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2018/01/03		91	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2018/01/03		95	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2018/01/03		84	%	70 - 130
			Perfluorotetradecanoic Acid	2018/01/03		95	%	70 - 130
			Perfluorotridecanoic Acid	2018/01/03		98	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2018/01/03		94	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2018/01/03		94	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2018/01/03		97	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2018/01/03		97	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2018/01/03		84	%	70 - 130
5324451	KC1	Spiked Blank DUP	13C2-6:2 Fluorotelomer sulfonate	2018/01/03		76	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2018/01/03		67	%	50 - 150
			13C2-Perfluorodecanoic acid	2018/01/03		77	%	50 - 150
			13C2-Perfluorododecanoic acid	2018/01/03		72	%	50 - 150
			13C2-Perfluorohexanoic acid	2018/01/03		72	%	50 - 150
			13C2-perfluorotetradecanoic acid	2018/01/03		68	%	50 - 150
			13C2-Perfluoroundecanoic acid	2018/01/03		77	%	50 - 150
			13C4-Perfluorobutanoic acid	2018/01/03		73	%	50 - 150
			13C4-Perfluoroheptanoic acid	2018/01/03		74	%	50 - 150
			13C4-Perfluorooctanesulfonate	2018/01/03		70	%	50 - 150
			13C4-Perfluorooctanoic acid	2018/01/03		73	%	50 - 150
			13C5-Perfluorononanoic acid	2018/01/03		75	%	50 - 150
			13C5-Perfluoropentanoic acid	2018/01/03		73	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2018/01/03		68	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			18O2-Perfluorohexanesulfonate	2018/01/03		74	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2018/01/03		69	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2018/01/03		64	%	50 - 150
			6:2 Fluorotelomer sulfonate	2018/01/03		87	%	70 - 130
			8:2 Fluorotelomer sulfonate	2018/01/03		98	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2018/01/03		101	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2018/01/03		82	%	70 - 130
			N-methylperfluorooctane sulfonamide	2018/01/03		88	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2018/01/03		93	%	70 - 130
			Perfluorobutanoic acid	2018/01/03		94	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2018/01/03		92	%	70 - 130
			Perfluorodecane Sulfonate	2018/01/03		77	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2018/01/03		87	%	70 - 130
			Perfluoroheptane sulfonate	2018/01/03		87	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2018/01/03		94	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2018/01/03		95	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2018/01/03		87	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2018/01/03		93	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2018/01/03		88	%	70 - 130
			Perfluorotetradecanoic Acid	2018/01/03		89	%	70 - 130
			Perfluorotridecanoic Acid	2018/01/03		95	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2018/01/03		87	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2018/01/03		90	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2018/01/03		88	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2018/01/03		92	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2018/01/03		91	%	70 - 130
5324451	KC1	RPD	6:2 Fluorotelomer sulfonate	2018/01/03	5.8		%	30
			8:2 Fluorotelomer sulfonate	2018/01/03	5.2		%	30
			N-ethylperfluorooctane sulfonamide	2018/01/03	3.3		%	30
			N-ethylperfluorooctane sulfonamidoe	2018/01/03	7.0		%	30
			N-methylperfluorooctane sulfonamide	2018/01/03	5.6		%	30
			N-methylperfluorooctanesulfonamidol	2018/01/03	5.8		%	30
			Perfluorobutanoic acid	2018/01/03	0.81		%	30
			Perfluorobutane Sulfonate (PFBS)	2018/01/03	2.0		%	30
			Perfluorodecane Sulfonate	2018/01/03	8.3		%	30
			Perfluoroheptanoic Acid (PFHpA)	2018/01/03	6.0		%	30
			Perfluoroheptane sulfonate	2018/01/03	5.9		%	30
			Perfluorohexanoic Acid (PFHxA)	2018/01/03	6.8		%	30
			Perfluorohexane Sulfonate (PFHxS)	2018/01/03	4.3		%	30
			Perfluorononanoic Acid (PFNA)	2018/01/03	3.8		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2018/01/03	2.4		%	30
			Perfluoropentanoic Acid (PFPeA)	2018/01/03	4.0		%	30
			Perfluorotetradecanoic Acid	2018/01/03	6.8		%	30
			Perfluorotridecanoic Acid	2018/01/03	3.1		%	30
			Perfluoroundecanoic Acid (PFUnA)	2018/01/03	7.9		%	30
			Perfluorodecanoic Acid (PFDA)	2018/01/03	4.5		%	30
			Perfluorododecanoic Acid (PFDoA)	2018/01/03	10		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2018/01/03	5.3		%	30
			Perfluorooctane Sulfonate (PFOS)	2018/01/03	7.6		%	30
5324451	KC1	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2018/01/03		81	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2018/01/03		73	%	50 - 150
			13C2-Perfluorodecanoic acid	2018/01/03		75	%	50 - 150
			13C2-Perfluorododecanoic acid	2018/01/03		66	%	50 - 150
			13C2-Perfluorohexanoic acid	2018/01/03		75	%	50 - 150

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Cape Cod Comission
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C2-perfluorotetradecanoic acid	2018/01/03		69	%	50 - 150
			13C2-Perfluoroundecanoic acid	2018/01/03		71	%	50 - 150
			13C4-Perfluorobutanoic acid	2018/01/03		79	%	50 - 150
			13C4-Perfluoroheptanoic acid	2018/01/03		73	%	50 - 150
			13C4-Perfluorooctanesulfonate	2018/01/03		74	%	50 - 150
			13C4-Perfluorooctanoic acid	2018/01/03		80	%	50 - 150
			13C5-Perfluorononanoic acid	2018/01/03		76	%	50 - 150
			13C5-Perfluoropentanoic acid	2018/01/03		74	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2018/01/03		69	%	50 - 150
			18O2-Perfluorohexanesulfonate	2018/01/03		71	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2018/01/03		61	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2018/01/03		66	%	50 - 150
			6:2 Fluorotelomer sulfonate	2018/01/03	<0.0066		ug/L	
			8:2 Fluorotelomer sulfonate	2018/01/03	<0.0066		ug/L	
			N-ethylperfluorooctane sulfonamide	2018/01/03	<0.010		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2018/01/03	<0.0079		ug/L	
			N-methylperfluorooctane sulfonamide	2018/01/03	<0.013		ug/L	
			N-methylperfluorooctanesulfonamidol	2018/01/03	<0.012		ug/L	
			Perfluorobutanoic acid	2018/01/03	<0.0055		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2018/01/03	<0.0054		ug/L	
			Perfluorodecane Sulfonate	2018/01/03	<0.0060		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2018/01/03	<0.0074		ug/L	
			Perfluoroheptane sulfonate	2018/01/03	<0.0080		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2018/01/03	<0.0035		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2018/01/03	<0.0056		ug/L	
			Perfluorononanoic Acid (PFNA)	2018/01/03	<0.0087		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2018/01/03	<0.0034		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2018/01/03	<0.0075		ug/L	
			Perfluorotetradecanoic Acid	2018/01/03	<0.0027		ug/L	
			Perfluorotridecanoic Acid	2018/01/03	<0.0038		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2018/01/03	<0.0025		ug/L	
			Perfluorodecanoic Acid (PFDA)	2018/01/03	<0.0061		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2018/01/03	<0.0050		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2018/01/03	<0.0033		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2018/01/03	<0.0060		ug/L	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Colm McNamara, Senior Analyst, Liquid Chromatography

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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